Date: July 5, 2001

MANUSCRIPT REVIEW BOARD INFORMATION SHEET

Manuscript Title: Evaluation of Relationships Between Mainstream Smoke Acetaldehyde and "Tar" and Carbon Monoxide Yields in Tobacco Smoke and Reducing Sugars in Tobacco Blends of U.S. Commercial Cigarettes

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x **Travel requested for** [author (s)]: Susan Laffoon

Conference/Publication Deadline for: **Abstract** _____ **Manuscript** _____

Reviewed by Manager _____ **Approved by Director** _____

Reviewed by Vice President

Abstract: Mainstream smoke acetaldehyde, carbon monoxide and "tar" yields from a Philip Morris database of commercial cigarettes and reducing sugars in the tobacco blends were analyzed. MS smoke acetaldehyde is significantly correlated with "tar" yield and also with MS smoke carbon monoxide. The correlations found between MS smoke acetaldehyde yield and "tar" and MS smoke carbon monoxide support the conclusion that both acetaldehyde and carbon monoxide yields are affected more by cigarette design characteristics influencing total smoke production, such as filter ventilation, than by specific additives. MS smoke acetaldehyde yield is not correlated with reducing sugar concentration in tobacco blend. Over the time periods 1985-1988 and 1990-1993, for the available Philip Morris database of US commercial cigarettes, the concentration of reducing sugars either stayed the same or decreased slightly. The correlations and conclusions reported herein are consistent with the published literature, including the 1999 Massachusetts Benchmark Study.

Patent Status: **Applied for** **Patented** **Not Filed** x **No Interest**

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